REMARKS

Claims 1-2, 8, 10, 27 and 30-33 are currently pending in the subject application and are presently under consideration. Favorable reconsideration of the subject patent application is respectfully requested in view of the comments and amendments herein.

I. Summary of the Prosecution History

Applicants' representative submits this summary of the prosecution history in order to explain the rationale underlying the amendments to the claims. On August 25, 2004, applicants' representative filed a Notice of Appeal. (See Notice of Appeal dated August 25, 2004). After the Appeal Brief was filed, applicants' representative was contacted by the Examiner to discuss amending the claims. (See Letter to the Examiner Regarding Withdrawal of the Appeal). As indicated in the Appeal Brief, applicants' representative respectfully submits that the claims as appealed were patentable over the cited art. However, in order to expedite allowance, applicants' representative agreed to amend the claims as suggested by the Examiner and to withdraw the appeal in consideration for allowance of the amended claims. (See Letter to the Examiner Regarding Withdrawal of the Appeal). Accordingly, a Request for Continued Examination (RCE) with the amendments suggested by the Examiner was filed. (See RCE and Amendments dated July 27, 2005).

Subsequently, the claims were not allowed and instead an Office Action was issued rejecting the amended claims. (See Office Action dated October 20, 2005). Applicants' representative contacted the Examiner to discuss the Office Action and to obtain insight as to why the claims were not allowed as was discussed in the previous telephone conversation with the Examiner. The Examiner suggested amending the system claims to recite an application programming interface in order to place the claims in better condition for allowance. In order to expedite prosecution, applicants' representative amended the claims accordingly. (See Reply to Office Action dated October 20, 2005). Since the earlier amendments only were submitted to expedite prosecution and were not necessary to overcome the cited art (as explained in the Appeal Brief), applicants' representative removed from the independent claims the limitations that had been added in response to the Examiner's previous suggestions. (See Reply to Office Action dated October 20, 2005).

Subsequently, for the first time, the Examiner rejected the claims under 35 U.S.C. §101

as being directed toward unpatentable subject matter and made the rejection final. (See Final Office Action dated May 1, 2006). Applicants' representative respectfully submits that, at least to claims 8, 10 and 27, the finality of the rejection was premature. Although applicants' representative respectfully disagrees with the 101 rejection, in order to expedite prosecution and place the claims in better condition for appeal, applicants' representative amended the claims to address the 101 rejection. However, the Examiner refused to enter the amendments. Now, more than two years after the Notice of Appeal was filed, applicants' representative files a Request for Continued Examination with amendments that address the 101 rejection (which was first presented in the Final Office Action dated May 1, 2006) in order to place the claims in a better condition for appeal should the claims again be rejected by the Examiner under 35 U.S.C. §§102/103.

II. Rejection of Claims 1, 2, 8, 10, 27 and 30-33 Under 35 U.S.C. §101

Claims 1, 2, 8, 10, 27 and 30-33 stand rejected under 35 U.S.C. §101 because the Examiner contends that the claimed invention is directed to non-statutory subject matter. Applicants' representative respectfully submits that the claims as submitted prior to these amendments encompass patentable subject matter. (See e.g., Eolas Technologies, Inc. v. Microsoft Corp., 399 F.3d 1325, 1339 (Fed. Cir. 2005)). However, in order to expedite prosecution, the claims have been amended. Withdrawal of this rejection is respectfully requested.

III. Rejection of Claims 8, 10, 32 and 33 Under 35 U.S.C. §102(e)

Claims 8, 10, 32 and 33 stand rejected under 35 U.S.C. §102(e) as being anticipated by Vandersluis (US Patent 6,356,920). Withdrawal of this rejection is respectfully requested for at least the following reasons. Vandersluis does not disclose both a hierarchical (XML data document component) and a relational representation (data set component) of an XML source document or a system that facilitates accessing and changing information in the XML data document component and reflecting these changes in the data set component according to a mapping between the XML data document component and the data set component.

A single prior art reference anticipates a patent claim only if it

expressly or inherently describes each and every limitation set forth in the patent claim. Trintee Industries, Inc. v. Top-U.S.A. Corp., 295 F.3d 1292, 63 USPQ2d 1597 (Fed. Cir. 2002); See Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). The identical invention must be shown in as complete detail as is contained in the ... claim. Richardson v. Suzuki Motor Co., 868 F.2d 1226, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989) (emphasis added).

The subject application describes systems and methods for providing unified access to structured (e.g., relational) and unstructured (e.g., hierarchical) data. (See Application at p. 4). Data in a source document is parsed into both hierarchical and relational representations so that information contained in the source document can be accessed as structured data (e.g., relational representation) and/or as unstructured data (e.g., hierarchical representation) as shown in Fig. 1 of the subject application reproduced below. (See Application at pp. 4-5).

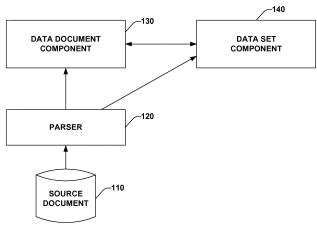
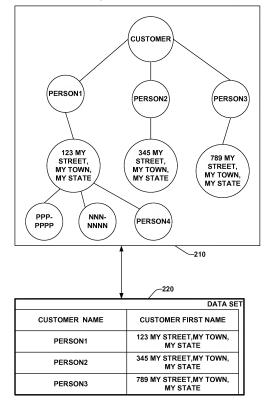
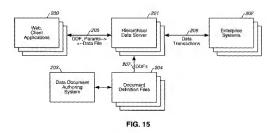


Fig. 2 of the subject application reproduced below shows an example of a hierarchical representation 210 and a relational representation 220 of the source document data.



The hierarchical representation and the relational representation are synchronized, so that change(s) made to the data in one representation can be reflected in the other representation. (See Application at pp. 4-5).

Claim 8 recites the limitations an XML data document component having a hierarchical representation of information associated with an XML source document and a data set component having a relational representation of at least some of the information associated with the XML source document, wherein the system facilitates accessing and changing information in the XML data document component and reflecting these changes in the data set component according to a mapping between the XML data document component and the data set component. Vandersluis does not disclose these novel features of the subject claim. Vandersluis discloses a Hierarchical Data Server (HDS) 201 as shown in Fig. 15 of Vandersluis reproduced below. (See Vandersluis at col. 5, lines 56-57).



When a client 200 needs data from enterprise systems 202, it sends a request to the HDS indicating the Document Definition File (DDF) 204 that specifies the data to be retrieved. (See Vandersluis at col. 5, line 66-col. 6, line 1, col. 7, lines 14-26 and Fig. 16). Upon receiving a client request, the HDS processes all of the elements in the DDF and returns a Data File to the client. (See Vandersluis at col. 5, lines 53-55; col. 7, 3-10; and col. 8, lines 43-52). A DDF is created by a human using the Document Definition Authoring System 203. (See Vandersluis at col. 5, lines 45-51, col. 10, line 30 through col. 11, line 40 and Figs. 4(a)-(b)). In the preferred

embodiment of Vandersluis, both the DDF and the Data File returned to the client are *XML* documents. (See Vandersluis at col. 11, lines 40-55).

The Examiner contends that Vandersluis discloses a data set component having a relational representation of at least some of the information associated with the XML source document at the Abstract, lines 16-21 and Figs. 4a-b and associated text. (See Final Office Action dated May 1, 2006 at p. 4). Lines 16-21of the Abstract read as follows:

[d]ata elements may be derived from a plurality of sources, and these sources may be combined and manipulated using a plurality of data operations, including relational algebra or structured query language, enabling joins and merges between multiple sources and formats. An Authoring System is provided which assists in the construction and validation of DDEs.

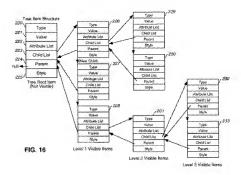
(Vandersluis at Abstract). That section of the Abstract merely states that data may be obtained from a plurality of sources/formats and manipulated. It does not disclose a data set component having a relational representation of at least some of the information associated with the XML source document. Figs. 4a-b reproduced below show the user interface for the Data Document Authoring System.



FIG 4a



The Document Definition Authoring System is described as a piece of software that assists in the creation and editing of a DDF, which is a hierarchical document as shown in Fig. 16 of Vandersluis reproduced below, not a relational representation of an XML source document. (See Vandersluis at Abstract, col. 6, lines 65-67, col. 7, lines 14-44, col. 11, lines 40-55 and Fig. 16).



The Examiner also contends that Vandersluis discloses a system that facilitates accessing and changing information in an XML data document component and reflecting these changes in a data set component according to a mapping between the XML data document component and the data set component at Figs. 7 and 14 and associated text. (See Final Office Action dated May 1, 2006 at p. 4). Fig. 7 of Vandersluis is a flowchart of the processing steps taken by the HDS to process an element of the DDF. (See Vandersluis at col. 6, lines 34-35). It does not show changing information in a hierarchical representation of an XML source document and reflecting these changes in a relational representation of the XML source document according to a mapping. Fig. 14 of Vandersluis shows C++ code for performing parameter substitution. (See Vandersluis at col. 6, lines 57-60 and col. 7, lines 29-47). It does not show changing information in a hierarchical representation of an XML source document and reflecting these changes in a relational representation of the XML source document and reflecting these changes in a relational representation of the XML source document according to a mapping. In view of at least the foregoing, applicants' representative respectfully requests that this rejection be withdrawn.

IV. Rejection of Claims 1-2, 27, 30 and 31 Under 35 U.S.C. §103(a)

Claims 1-2, 27, 30 and 31 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Vandersluis (US Patent 6,356,920) in view of Ludwig (US Patent Pub. No. 2002/0198798). Withdrawal of this rejection is respectfully requested for at least the following reasons. Neither Vandersluis nor Ludwig, either alone or in combination, teach or suggest all of the claim limitations.

The test of obviousness is whether "the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art." (Graham v. John Deere Co., 383 U.S. 1, 3 (1966) (emphasis added); see also e.g., In re Dembiczak, 175 F.3d 994, 998, 50 U.S.P.Q. 1614, 1616 (Fed. Cir. 1999)). In evaluating obviousness, the PTO must conduct the factual inquiry as outlined in Graham v. John Deere Co., 383 U.S. 1, 17-18 (1966). (See In re Lee, 277 F.3d 1338, 1342-43, 61 U.S.P.Q.2d 1430, 1433 (Fed. Cir. 2002)). The factual inquiry to be conducted includes determining: (1) the scope and content of the prior art; (2) the level of ordinary skill in the prior art; (3) the differences between the claimed invention and the prior art; (3) the differences between the claimed invention and the prior art; (3) the differences between the claimed invention and the prior art; and (4) objective evidence of nonobviousness. (See Graham.

383 U.S. 1, 17-18 (1966)). The PTO must "not only assure that the requisite findings are made, based on evidence of record, but must also explain the reasoning by which the findings are deemed to support the agency's conclusion." (In re Lee, 277 F.3d at 1344, 61 U.S.P.Q.2d at 1434). The PTO cannot rely merely on conclusory statements and assertions of "common sense" to remedy deficiencies of the cited references. (In re Lee, 277 F.3d at 1344, 61 U.S.P.O.2d at 1434). If the PTO relies on multiple prior art references as the basis for an obviousness rejection, it is not enough that all of the claim limitations appear in the prior art. To establish a prima facie case of obviousness, the PTO must also make an adequate showing of a suggestion, teaching, or motivation to combine the prior art references. (See In re Dembiczak, 175 F.3d 994, 999-1001, 50 U.S.P.Q. 1614, 1617 (Fed. Cir. 1999) (citing to C.R. Bard, Inc., v. M3 Systems, Inc., 157 F.3d 1340, 1352, 48 U.S.P.O.2d 1225, 1232 (Fed. Cir. 1998)); see also In re Lee, 277 F.3d at 1343, 61 U.S.P.O.2d at 1433). Only if the PTO establishes a prima facie case of obviousness does the burden of coming forward with evidence or argument shift to the applicant. (See In re Oetiker, 977 F.2d 1443, 1445, 24 U.S.P.Q.2d 1443, 1445 (Fed. Cir. 1992)).

Claim 1 recites the limitations a data document component having a hierarchical representation of at least a portion of information associated with the data source, and a data set component having a relational representation of at least a portion of information associated with the data source, the data set component and the data document component being mapped to each other to facilitate accessing the information in either representation, changing the information in the representation accessed and synchronizing these changes in the other representation. Claim 27 recites the limitations a component to facilitate synchronizing one or more changes made to relationally represented source document information mapped to a hierarchically represented source document information. As explained above Vandersluis does not teach or suggest these novel features of the subject claims. Ludwig does not remedy the deficiencies of Vandersluis.

Ludwig discloses a network-based system and method for billing and payment. (See Ludwig at para. 0001). The Examiner contends that Ludwig discloses synchronizing changes in a hierarchical or relational representation of a data source with the other representation at Fig. 5 and associated text, specifically paragraph 0058. (See Final Office Action dated May 1, 2006 at

p. 6). Fig. 5 of Ludwig is a flowchart showing the steps performed by the server when a user logs into the server to pay a bill. (See Ludwig at para, 0054). Paragraph 0058 states:

[t]he system may permit a host user to select an option to edit biller websites and logos, directing the user to a biller website and logo page 511. The system may display a list of billers, and upon selection of a biller from the list, the system may populate the company information area with details about the current biller. For each biller, the system may permit a list of company logos and websites to be edited. The system may make new logos available to the system with an "add" button which uploads the logo file, and may likewise permit logos to be removed from the system with a "remove" button. The system may display a list of websites via a listbox containing the sites and a site details edit area. Upon selection of a website in the list, the system may populate the site details section. The system may permit the URL, description, and type of website to be edited. The system may provide a delete button for removing a site from the list. The system may provide a save button to save the current website. The system may provide a new site button for emptying the edit area to allow a new site to be entered and saved. The system may provide selectable links for accessing the biller's enrollment page and biller profile page. The system may be adapted to store logo and website data as global information on the database

(Ludwig at para. 0058). As is readily apparent, paragraph 0058 of Ludwig merely discloses a mechanism by which a user may edit biller web sites and logos. In view of at least the foregoing, applicants' representative respectfully requests that this rejection be withdrawn.

CONCLUSION

The present application is believed to be in condition for allowance in view of the above comments and amendments. A prompt action to such end is earnestly solicited. In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063 [MSFTP250US]. Should the Examiner believe a telephone interview would be helpful to expedite favorable prosecution, the Examiner is invited to contact applicants' undersigned representative at the telephone number below.

Respectfully submitted,
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